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09/658,866	09/08/2000	Dirk P. Gunther	7099-1267	2936
22852 7	7590 10/03/2003		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20005			PORTER, RACHEL L	
			ART UNIT	PAPER NUMBER
			3626	
			DATE MAILED: 10/03/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Elementors of time may be available under the provisions of 37 CPR 1.736(a). In no event, however, may a reply be timely field If the period for reply specified above is less than thirty (30) days, a reply within the statulary minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statulary printimum of thirty (30) days will be considered timely. If No period for reply specified above is less than thirty (30) days, a reply within the statulary printimum of the replace of the communication. Facility within the set or extended pands for reply will, by statular, cause the speciation to become ABARDONED (SS U.S.C. § 13). Period of the set of the communication of the set of the communication, which is the set of the communication of the set of the communication, which is the set of the communication of the set of the communication, which is the set of the communication of the set	<u>'</u>							
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DETAILED ACTION

Notice to Applicant

1. This communication is in response to the application filed 9/8/00. Claims 1-17 are pending. The IDS's filed 12/7/00, 2/23/01, and 2/26/02 have been entered and considered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 and 11-17 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two-prong test of:

- (1) whether the invention is within the technological arts; and
- (2) whether the invention produces a useful, concrete, and tangible result.

For a claimed invention to be statutory, the claimed invention must be within the technological arts. Mere ideas in the abstract (i.e., abstract idea, law of nature, natural phenomena) that do not apply, involve, use, or advance the technological arts fail to promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) and therefore are found to be non-statutory subject matter.

For a process claim to pass muster, the recited process must somehow apply, involve, use, or advance the technological arts. In the present case claim 1 only recites an abstract idea. The recited steps of merely determining a set of itineraries does not

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apply, involve, use, or advance the technological arts since all of the recited steps can be performed in the mind of the user or by use of a pencil and paper. These steps only constitute an idea of how to maximize profitability for a (travel) service provider.

As to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) or mere implication of employing a machine or article of manufacture to perform some or all of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble. In the present case, none of the recited steps are directed to anything in the technological arts as explained above with the exception of the recitation in the preamble that the method is "computer implemented". Looking at the claim as a whole, nothing the body of the claim recites any structure or functionality to suggest that a computer performs the recited steps. Therefore, the preamble is taken to merely recite a field of use.

The deficiencies in the present claim may be overcome by simply expressly stating in the body of the claims the use of technology, such as a *computer* processor and/or a *computer* database.

Additionally, for a claimed invention to be statutory, the claimed invention must produce a useful, concrete, and tangible result. In the present case, the invention of claims 1-7 produces a set of itineraries (i.e., repeatable) used in determining/selecting the best set of market plans to optimize profitability. (i.e., useful and tangible).

Although the recited process of claims 1-7 produces a useful, concrete, and tangible result, since the claimed invention, as a whole, is not within the technological

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arts as explained above, claim 1 is deemed to be directed to non-statutory subject matter.

Claims 2-7 inherit the deficiencies of claim 1 through dependency, and are also rejected.

As per claim 11, the present claim recites "a computer program product having instructions for. . ." in the preamble. Data structures not embodied on a computer readable media are considered descriptive material. They are therefore considered non-statutory because they are not capable of causing a functional change in a computer. As drafted, the claim fails to define any structural and functional interrelationships between the code and other elements of a computer that permit the computer program's function to be realized. (See MPEP § 2106)

For a claimed invention to be statutory, the claimed invention must also produce a useful, concrete, and tangible result. Under this analysis, the present language of exemplary claim 11 merely recites non-functional descriptive material, as no recitation of executable code being embodied on any medium or data structure is provided.

Simply stated, the "computer program product" as recited in claim 11 (as an apparent "article of manufacture") fails to have a tangible result. As such, claim 11 fails to recite the practical application of an abstract idea to satisfy the requirements of 35 U.S.C. 101.

Claims 12-17 inherit the deficiencies of claim 11 through dependency and are also rejected.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Barlow et al (USPN 5,652,867).

As per the limitations of claims 1-7, Barlow teaches a method for optimizing a schedule of legs employed in transporting objects between geographic markets, comprising the steps of:

- identifying a set of itineraries for serving each market in a set of markets, each itinerary comprising one or more legs; (Figure 1; col. 3, lines 45-65)
- generating a set of market plans for each market, each market plan
 comprising a modified set of the itineraries for the market, (Figure 4; col. 4,
 lines 15-45,)
- determining the profitability of each market plan, (Figs 4-5;col. 5, lines 66-col.
 6, line 4)
- selecting from the set of market plans a subset optimizing the profit of the schedule (Figure 2; col. 2, lines 39-47; col. 6, lines 36-46, 56-67)

Barlow further teaches a method that uses a "profitability model" (i.e. a model that assists in determining the profitability of various itineraries) and wherein various

parameters may be considered and/or manipulated in determining flight schedules (col. 5, lines 29-46).

System claims 8-10 repeat the subject matter of claims 1-3 as a set of components capable of performing the functions recited claims 1-3. As the underlying process has been shown to be fully disclosed by the teachings of Barlow et al in the above rejection of claims 1-3, it is readily apparent that the Barlow reference includes a system to perform the recited functions. As such, these limitations are rejected for the same reasons provided in the rejection of claims 1-3 and incorporated herein.

Claims 11-17 repeat the subject matter of claims 1-7 as a set of computer readable instructions (for causing a computer) to perform the steps recited in claims 1-7. As the underlying process has been shown to be fully disclosed and computer implemented by the teachings of Barlow et al in the above rejection of claims 1-7, it is readily apparent that the Barlow reference includes computer instructions cause a compute to perform the recited functions. As such, these limitations are rejected for the same reasons provided in the rejection of claims 1-7 and incorporated herein.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Yu et al (USPN 6,314,361) discloses a system and method for optimizing flight schedules when flight operations have been disrupted.

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- Talluri (USPN 6,263,315) teaches a system and method for revenue management to determine the profitability of flight legs.
- Hornick (WO 9212492 A2) teaches an inventory control system for determining expected marginal seat revenue using a leg-based optimization method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rachel L. Porter whose telephone number is 703-305-0108. The examiner can normally be reached on M-F, 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on (703)305-9588. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-

1113.

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